

Steel Design - LRFD

AISC Steel Manual 13th edition

Column Design Tutorial

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1 Introduction

According to the LRFD methodology columns must be selected such that the following basic equation is satisfied:

$$\phi P_n \geq P_u$$

Therefore, column design requires the determination of ϕP_n . To do this, for a particular column, the slenderness, KL/r , of the column must be determined. This tutorial outlines the relevant information needed to obtain the column's governing slenderness and then subsequently determine ϕP_n .

2 Slenderness Ratio

Every column has a slenderness ratio calculated as KL/r where K is the effective length factor, L is the column length and r is the radius of gyration for the column cross-section about the axis that governs buckling. The slenderness ratio for compression members preferably should not exceed 200. The slenderness may need to be calculated for buckling about each axis of the column cross-section. The largest of the following values, $K_x L_x / r_x$, $K_y L_y / r_y$ or possibly $K_z L_z / r_z$, must be used.

2.1 Effective Length Factor

Depending on the type of building and column end conditions, the effective length factor, K , may be determined as follows:

(a.) Braced frames(Non-sway Frames)

i. Non-moment connections at the column joints.

$$K = 1.0$$

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James R. Harris



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Handbook of Civil Engineering Calculations, Second Edition Tyler G. Hicks, S. David Hicks, 2007-05-23 Table of Contents Preface How to Use This Handbook Sect 1 Structural Steel Engineering and Design Sect 2 Reinforced and Prestressed Concrete Engineering and Design Sect 3 Timber Engineering Sect 4 Soil Mechanics Sect 5 Surveying Route Design and Highway Bridges Sect 6 Fluid Mechanics Pumps Piping and Hydro Power Sect 7 Water Supply and Stormwater System Design Sect 8 Sanitary Wastewater Treatment and Control Sect 9 Engineering Economics Index 1 **Structural Design Guide** Edward S. Hoffman, 1996-08-31 This essential guide clearly explains the American Institute for Steel Construction AISC Load and Resistance Factor Design LRFD Specifications and Commentary enabling readers to conform with and profit from the design aids and tables in the AISC Manuals of Steel Construction Volumes I and II It provides readers with valuable specification interpretations analysis and design examples and graphs providing ready made solutions to complex code formulas Special features of this practical volume include quick and economical beam selection tables detailed truss design examples and coefficients for shears moments and points of inflection It contains a variety of numerical examples along with discussions of material specifications The design requirements included in the LRFD specifications are arranged in an accessible manner making it easy to pinpoint the design of specific elements This single volume resource offers structural engineers essential material necessary for designing efficient structural steel buildings Engineering students in related courses will find this book invaluable for understanding and becoming acclimated with the AISC and LRFD standard design practices **Guide to Application of the 1991 NEHRP Recommended Provisions in Earthquake-Resistant Building Design** James R. Harris, 1996-07 Provides architects designing buildings in seismic risk areas with the information needed to effectively utilize the National earthquake Hazards Reduction program NEHRP Recommended Provisions Rigorously updated this manual includes the best most current technological information for reducing safety hazards Chapter topics include fundamentals structural analysis structural steel reinforced concrete timber masonry nonstructural elements List of symbols Metric unit conversion tables Graphs charts **LRFD Steel Design** William T. Segui, 1994 Newly updated to match the latest LRFD standards and AISC Steel Manual this concise well organized book gives students the fundamentals of structural steel design It will also prove useful to practicing engineers needing review of current practice and the current AISC Specification The author provides a wealth of examples problems and computer programming exercises to develop the readers practical understanding of modern steel design concepts and procedures **Schaum's Outline of Structural Steel Design** Abraham J. Rokach, 1991 Confusing Textbooks Missed Lectures Tough Test Questions Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice

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Jeffrey A. Packer, Silke Willibald, 2006-07-31. This topical book contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 11th International Symposium and IIW International Conference on Tubular Structures. The International Symposium on Tubular Structures (ISTS) has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for discussion of research developments and applications in this field. Various key and emerging subjects in the field of hollow structural sections are covered such as novel applications and case studies, static and fatigue behaviour of connections, joints, concrete filled and composite tubular members, earthquake resistance, specification and code developments, material properties and structural reliability, impact resistance and brittle fracture, fire resistance, casting and fabrication innovations. Research and development issues presented in this book are applicable to buildings, bridges, offshore structures, entertainment rides, cranes, towers and various mechanical and agricultural equipment. This book is thus a pertinent reference source for architects, civil and mechanical engineers, designers, steel fabricators and contractors, manufacturers of hollow sections or related construction products, trade associations involved with tubing, owners or developers of tubular structures, steel specification committees, academics and research students. The conference presentations herein include two keynote lectures: the International Institute of Welding Houdremont Lecture and the ISTS Kurobane Lecture, plus finalists in the CIDECT Student Papers Competition. The 11th International Symposium and IIW International Conference on Tubular Structures (ISTS11) took place in Quebec City, Canada, from August 31 to September 2, 2006. *Structural Engineering Handbook*, Edwin Henry Gaylord, Charles N. Gaylord, 1990. The sixth brilliant book from Andy McDermott, Clive Cussler's heir apparent, featuring archaeologist Nina Wilde and ex SAS member Eddie Chase.

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Aisc Lrfd Manual**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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